

Technical Report

The technical report is an individual assignment! (This means no copying!)

Cover Page

The very first page should be the cover page. Name, date, and period should be under the title of the report.

Table of Contents

The second page should be the table of contents.

Body (Explanation)

Begin by writing about the processes that you went through to make the bottle rocket. Start by looking at each step of the **Engineering Design Process** and applying it to your work. Use vocabulary from the Rocket Design Info pdf (found on the wiki page under downloads). The technical report must include **ALL** recorded data from testing. You may refer to pictures in your report to give visual aid when explaining your design choices. These pictures must have figure numbers.

Observations and Conclusion

Data included:

How long did the rocket stay in the air? _____

What was the height traveled? _____

How much did the rocket weigh? _____

How much water did you use? _____

Did your rocket have a parachute and was it successful? _____

The conclusion needs to include a list of materials, design changes, observations and conclusions. Questions to address in your observations and conclusions include: What problems did your bottle rocket experience? What could have been done to improve your project? If any changes were made during the building, tell why. Would you say your rocket was successful? Make sure to also include other important observations and conclusions.

Design

The original design and also any design changes should be included in the report. Give this a page number and a figure number for reference in the paper. This includes the design of the fins with measurements and a sketch of the rocket.

Resources

The research should be cited on the last page. There should be **at least 3** sources used in your paper.

Grading Rubric

Student Name: _____

Section	Requirement	Points Possible	Points Earned
Technical Report	Report Cover	5 Points	
	Cover Page	5 Points	
	Table of Contents	5 Points	
	Body (Engineering Design Process)	20 Points	
	Preliminary Designs (Sketch of Rocket)	20 Points	
	Final Design (Drawing with dimensions of fin)	20 Points	
	Observations and Conclusions	20 Points	
	Report must be TYPED in 12-Point Font, Double Spaced	5 Points	
Truss Bridge	Rocket constructed with correct materials	20 Points	
	Rocket flies for a minimum of 4 seconds	10 Points	
	Egg remains unbroken	10 Points	
	Extra Credit for longest flight	10 Points	
Total	Maximum points Technical Report: 100 Truss Bridge: 40	100/40	